

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: MILL POND	Lake Area (ha):	10.44
Town: WASHINGTON	Maximum depth (m):	2.4
County: Sullivan	Mean depth (m):	0.7
River Basin: Connecticut	Volume (m ³):	69000
Latitude: 43°14'01" N	Relative depth:	0.7
Longitude: 72°06'06" W	Shore configuration:	1.57
Elevation (ft): 1639	Areal water load (m/yr):	70.28
Shore length (m): 1800	Flushing rate (yr ⁻¹):	106.0
Watershed area (ha): 1070.1	P retention coeff.:	0.29
% watershed ponded: 3.2	Lake type:	natural w/dam

BIOLOGICAL:

11 January 2000

6 July 1999

DOM. PHYTOPLANKTON (% TOTAL)	#1	NO WINTER PLANKTON	CHRYOSOPHAERELLA 45%
	#2	ANALYZED	DINOBYRON 40%
	#3		MALLOMONAS 7%
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			13.89
DOM. ZOOPLANKTON (% TOTAL)	#1		NAUPLIUS LARVA 39%
	#2		POLYARTHRA 19%
	#3		
ROTIFERS/LITER			190
MICROCRUSTACEA/LITER			486
ZOOPLANKTON ABUNDANCE (#/L)			758
VASCULAR PLANT ABUNDANCE			Very abundant
SECCHI DISK TRANSPARENCY (m)			1.6
BOTTOM DISSOLVED OXYGEN (mg/L)		14.2	0.3
BACTERIA (E. coli, #/100 ml)	#1		
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

weakly stratified

Depth of thermocline (m): None
Hypolimnion volume (m³) : None
Anoxic volume (m³) : 500

CHEMICAL:Lake: MILL POND
Town: WASHINGTON

	11 January 2000		6 July 1999		
DEPTH (m)	1.0		1.5		
pH (units)	5.9		5.8		
A.N.C. (Alkalinity)	6.9		1.1		
NITRATE NITROGEN	0.28		< 0.05		
TOTAL KJELDAHL NITROGEN	0.24		0.50		
TOTAL PHOSPHORUS	0.005		0.023		
CONDUCTIVITY (μ mhos/cm)	21.8		17.8		
APPARENT COLOR (cpu)	18		46		
MAGNESIUM			0.29		
CALCIUM			1.2		
SODIUM			1.1		
POTASSIUM			< 0.40		
CHLORIDE	< 2		< 2		
SULFATE	4		3		
TN : TP	104		22		
CALCITE SATURATION INDEX			5.4		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1999

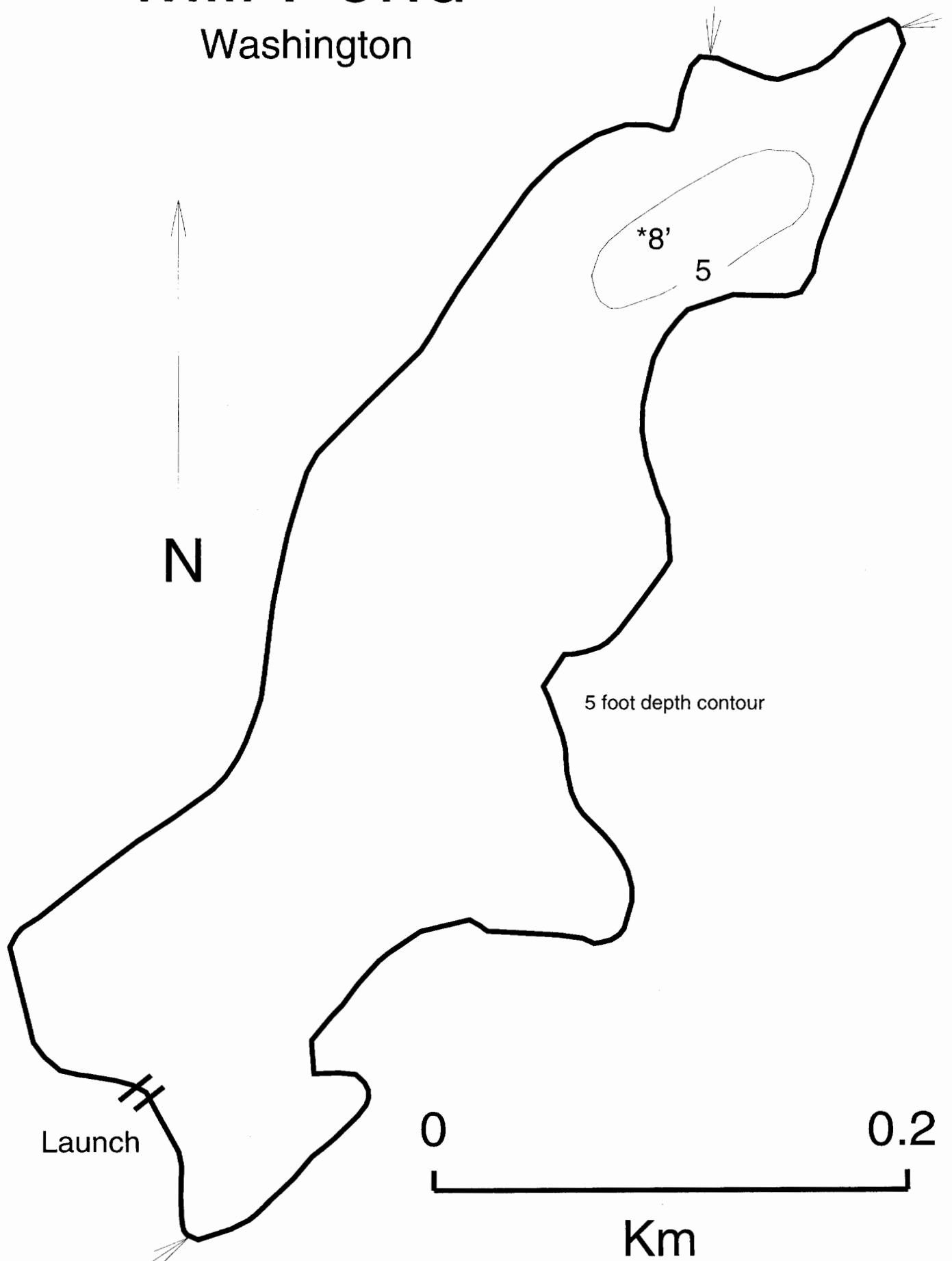
D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	4	6	3	13	Eutro.

COMMENTS:

1. Also known as Cherry Valley Pond.
2. The pond is located within Pillsbury State Park between May Pond and North Pond. There is no boat access. A picnic area with a mowed lawn is adjacent to the pond.
3. Water level was down about one foot.
4. This is a shallow, tea-colored, somewhat acid eutrophic pond with abundant plant and algal growth.

Mill Pond

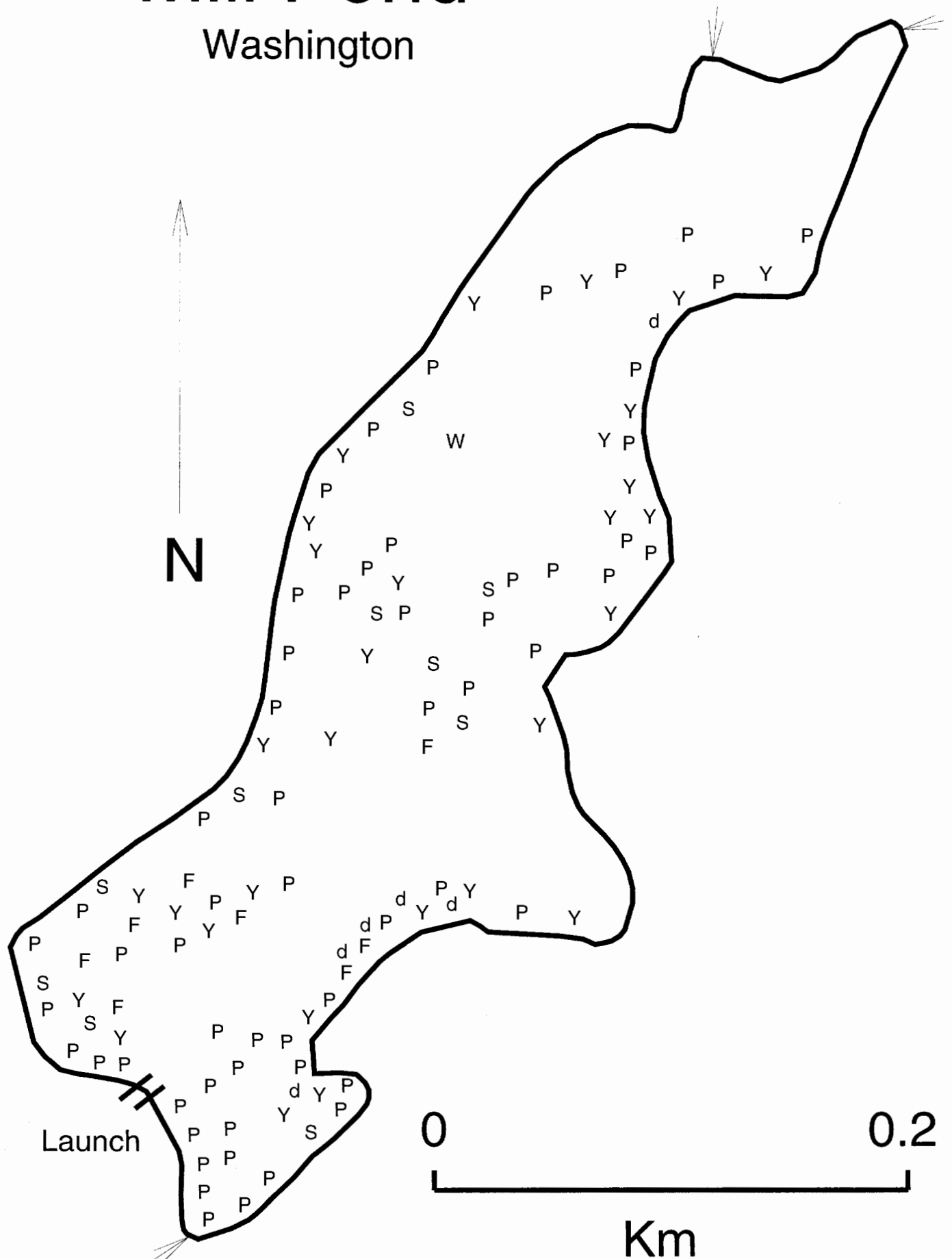
Washington



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Mill Pond

Washington



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